Name:

ml1112paper: Solve by factoring (v4)

1. Solve the equation

$$x^2 - 10x + 21 = 0$$

$$(x-3)(x-7) = 0$$
$$x = 7$$
$$x = 3$$

2. Solve the equation

$$x^2 - 10x + 16 = 0$$

$$(x-8)(x-2) = 0$$
$$x = 2$$
$$x = 8$$

3. Solve the equation

$$9x^2 - 9x + 30 = 8x^2 + x + 5$$

$$x^2 - 10x + 25 = 0$$
$$(x-5)(x-5) = 0$$
$$x = 5$$
$$x = 5$$

4. Solve the equation

$$6x^2 + 7x + 34 = 5x^2 - 5x + 2$$

$$x^2 + 12x + 32 = 0$$
$$(x+8)(x+4) = 0$$
$$x = -4$$
$$x = -8$$

5. Solve the equation

$$11x^2 + 58x - 48 = 0$$

$$(11x - 8)(x + 6) = 0$$
$$x = -6$$
$$x = \frac{8}{11}$$

6. Solve the equation

$$11x^2 + 40x - 16 = 0$$

$$(11x - 4)(x + 4) = 0$$
$$x = -4$$
$$x = \frac{4}{11}$$

7. Solve the equation

$$14x^2 - 32x + 24 = 7x^2 + x + 4$$

$$7x^2 - 33x + 20 = 0$$
$$(7x - 5)(x - 4) = 0$$
$$x = 4$$
$$x = \frac{5}{7}$$

8. Solve the equation

$$5x^2 - 7x - 28 = 3x^2 - 2x - 3$$

$$2x^2 - 5x - 25 = 0$$
$$(2x + 5)(x - 5) = 0$$
$$x = 5$$
$$x = \frac{-5}{2}$$